

Master in Artificial Intelligence



Deployment II





Purpose

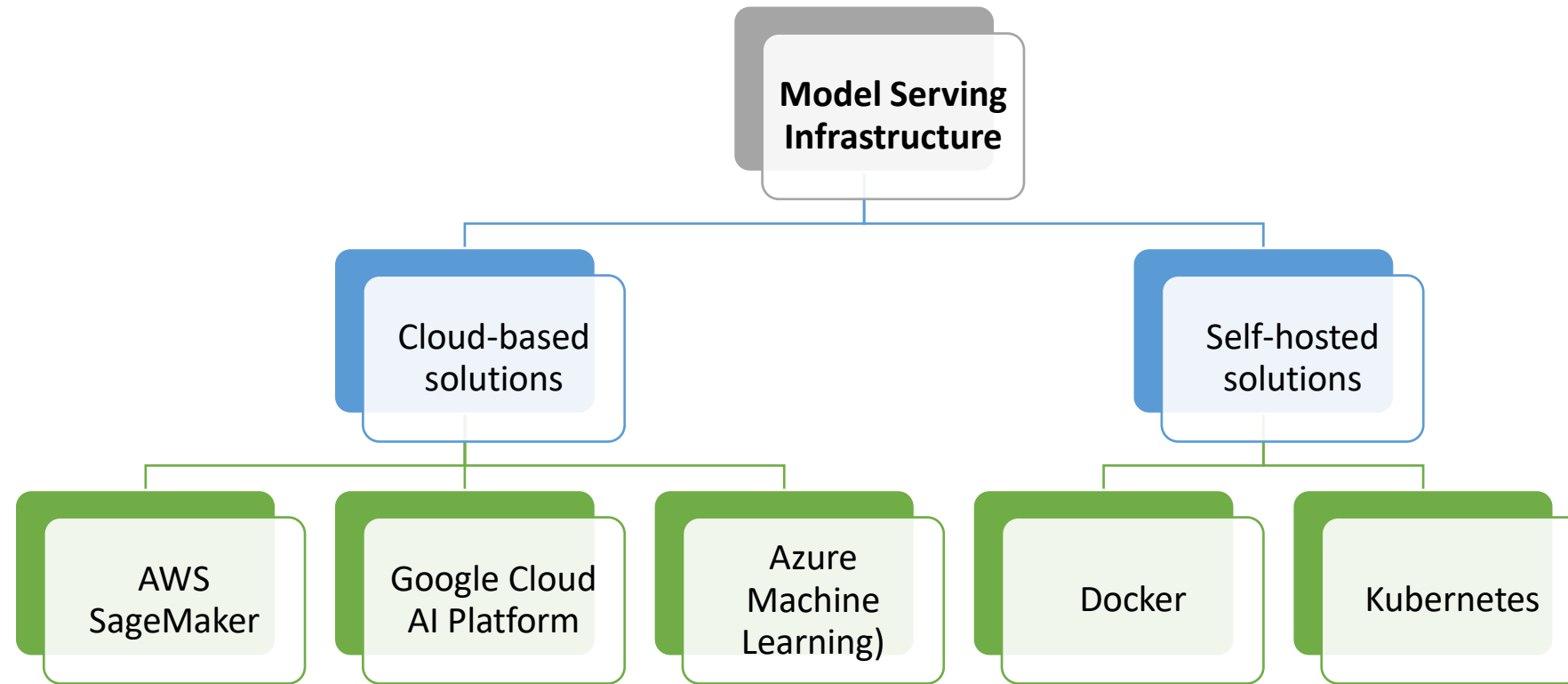
The purpose of the section is to help you learn how to deploy trained models into production environments to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

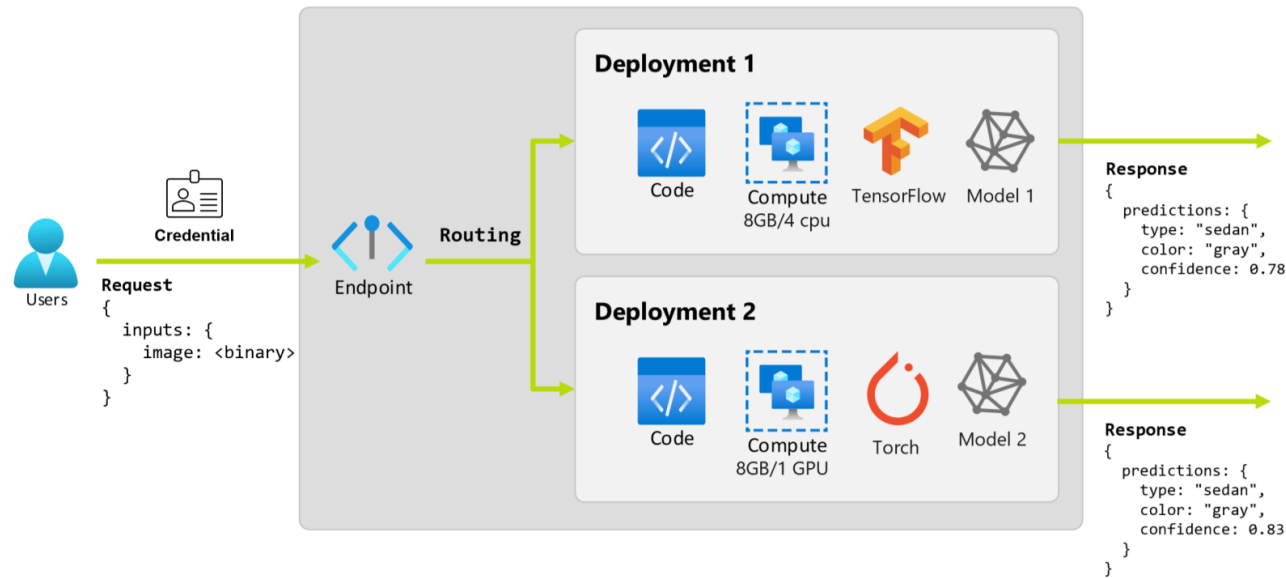
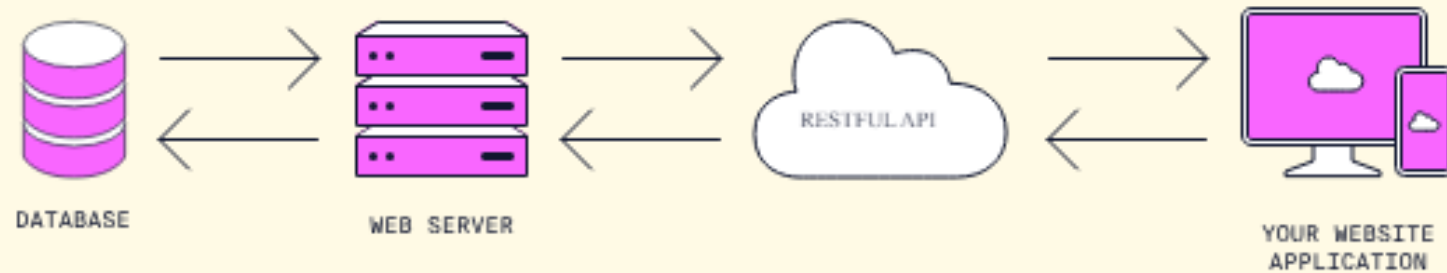
- **How to deploy trained models into production environments, ensuring they integrate smoothly with existing systems and meet performance requirements**



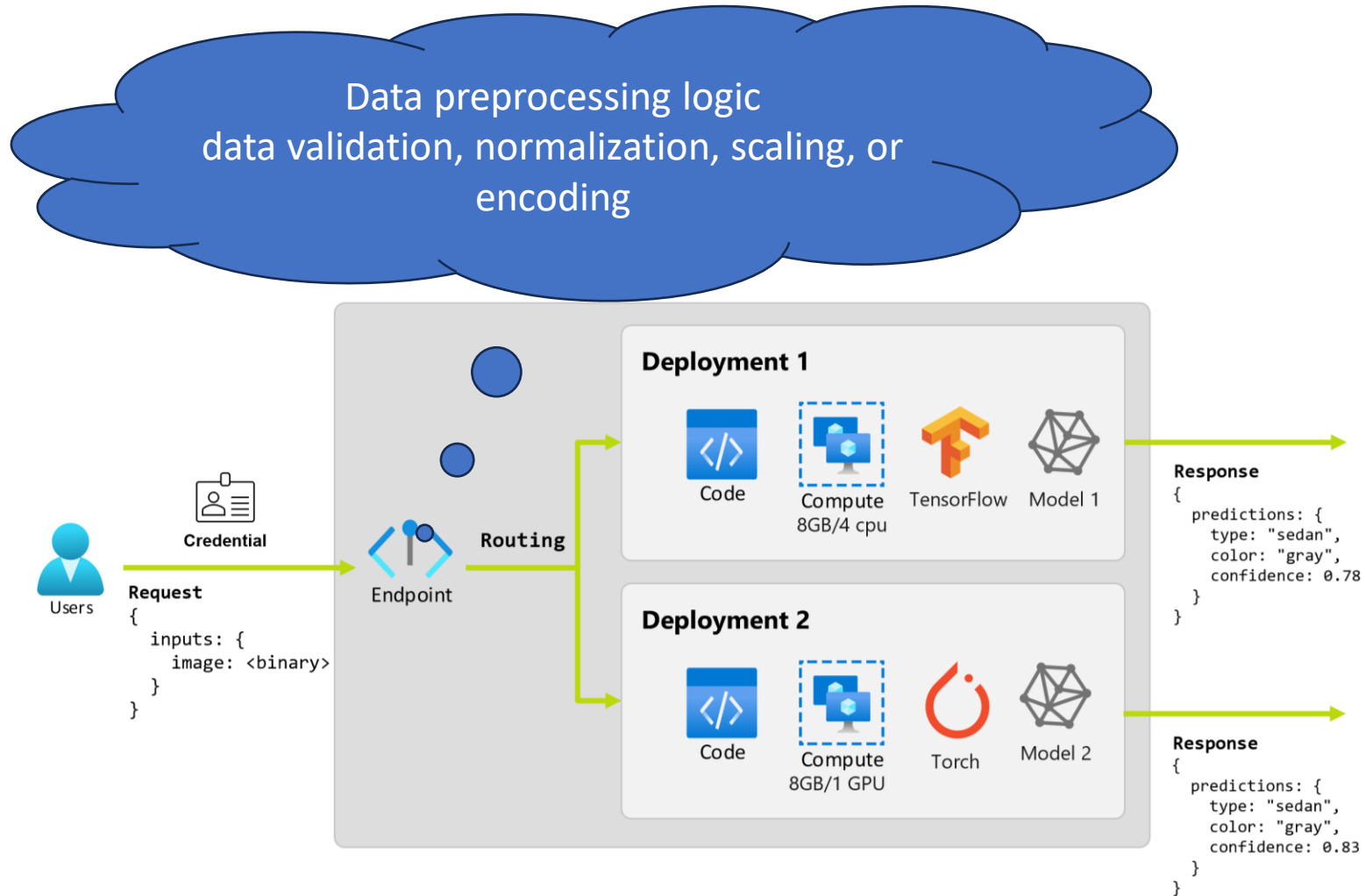
Model Serving Infrastructure



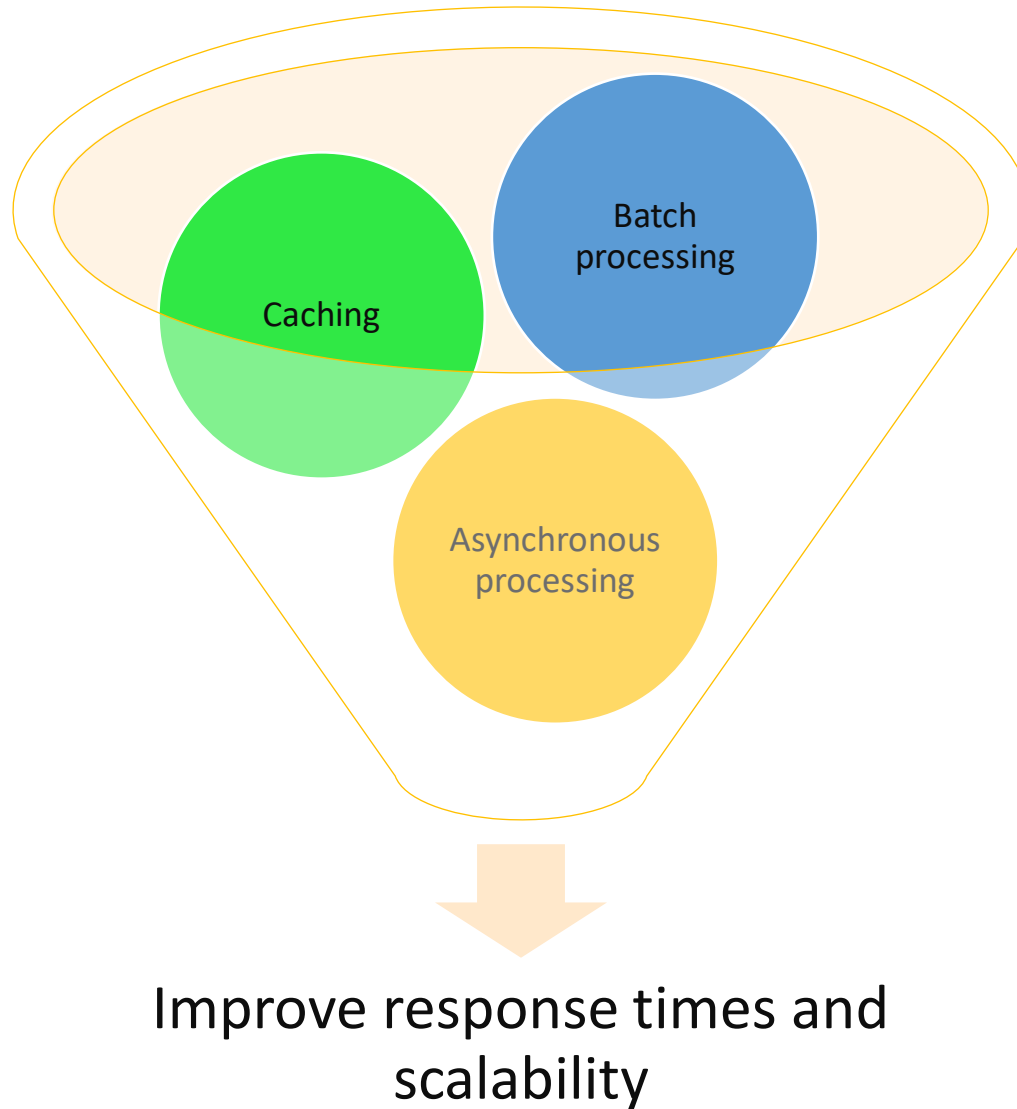
API Endpoint Creation



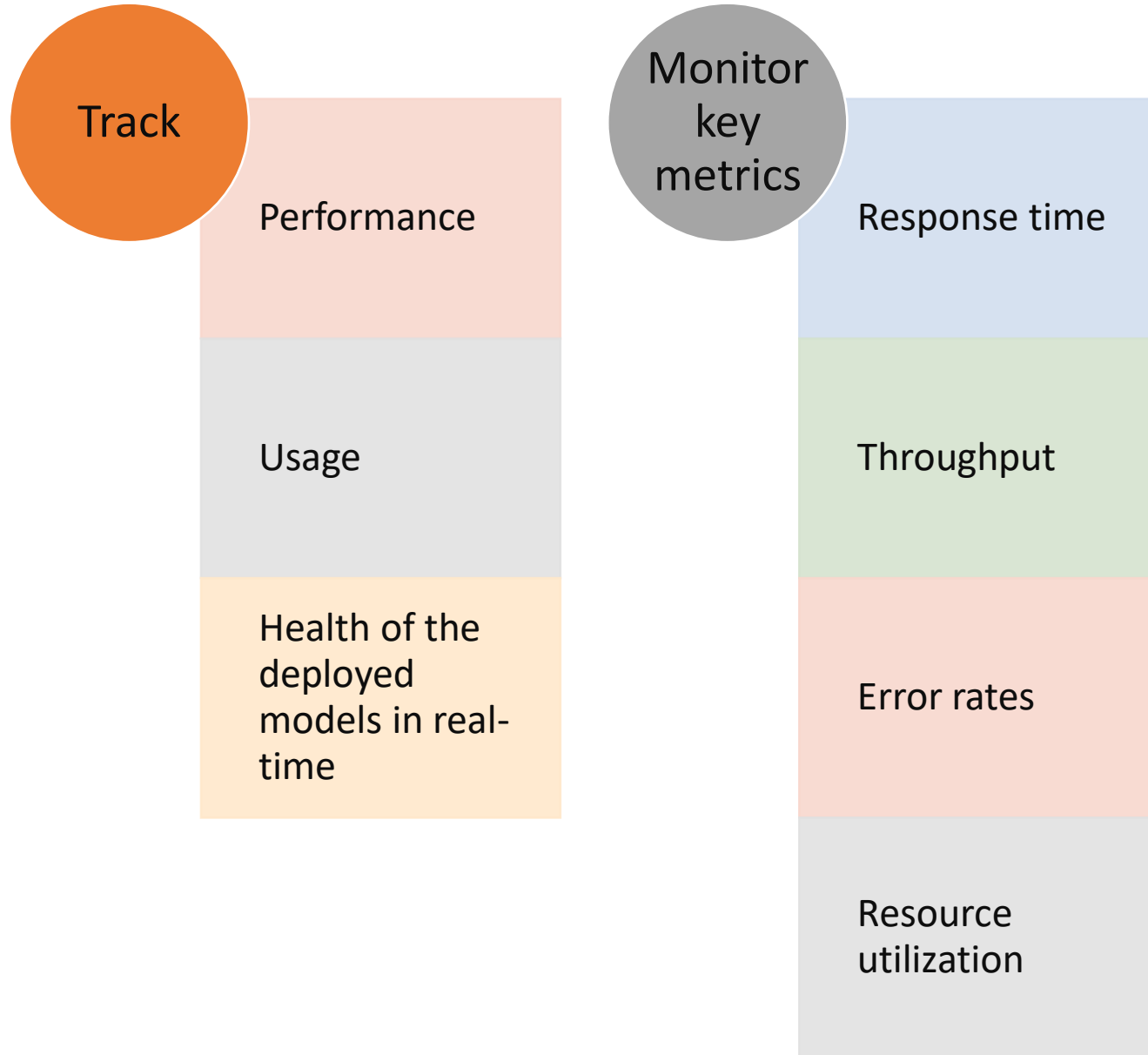
Input Data Preprocessing



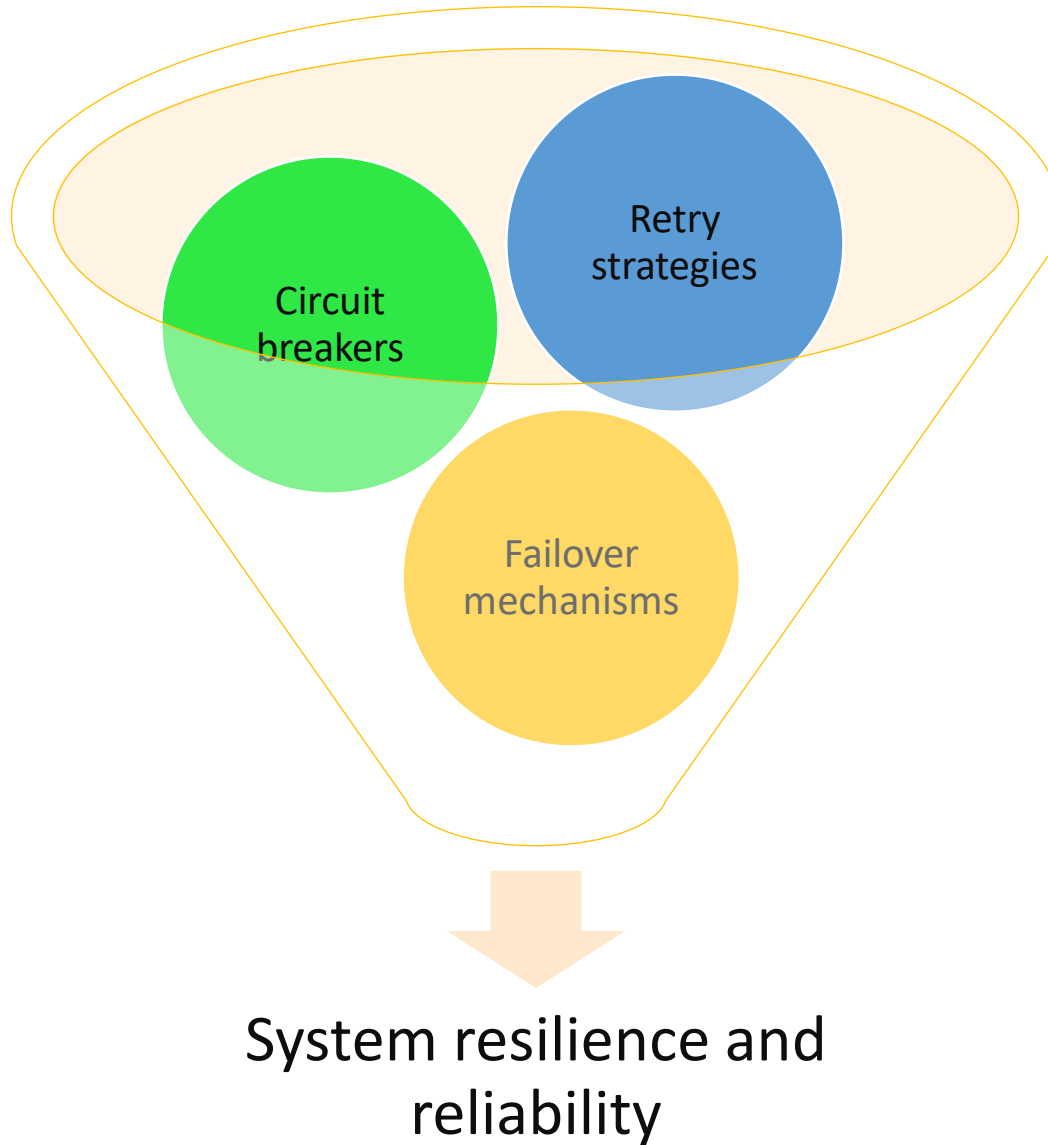
Performance Optimization



Monitoring and Logging



Error Handling and Resilience



Security and Authorization

Secure the
deployed
models

Authentication

Authorization

Encryption
mechanisms

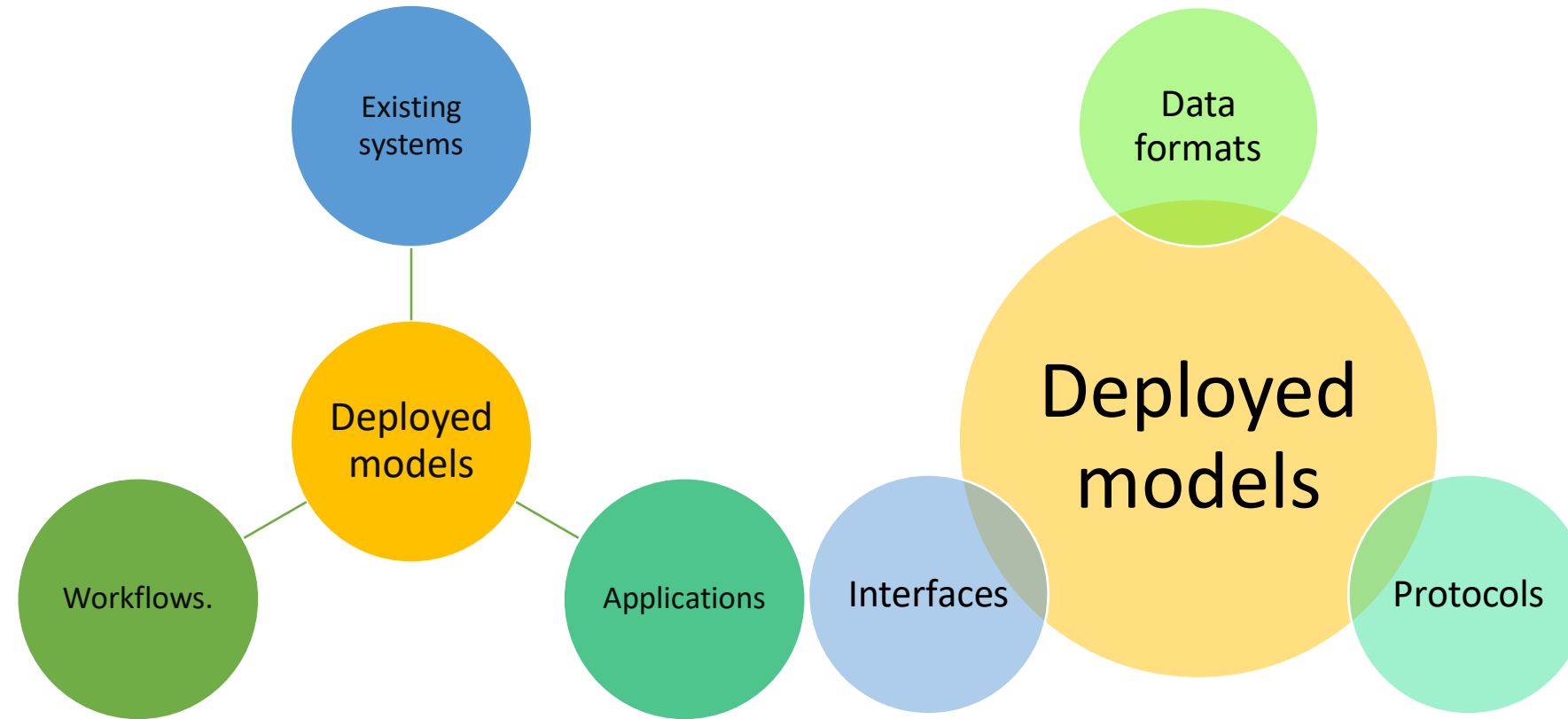
Ensure
compliance

Data privacy
regulations
(e.g., GDPR,
HIPAA)

Industry
security
standards



Integration with Existing Systems



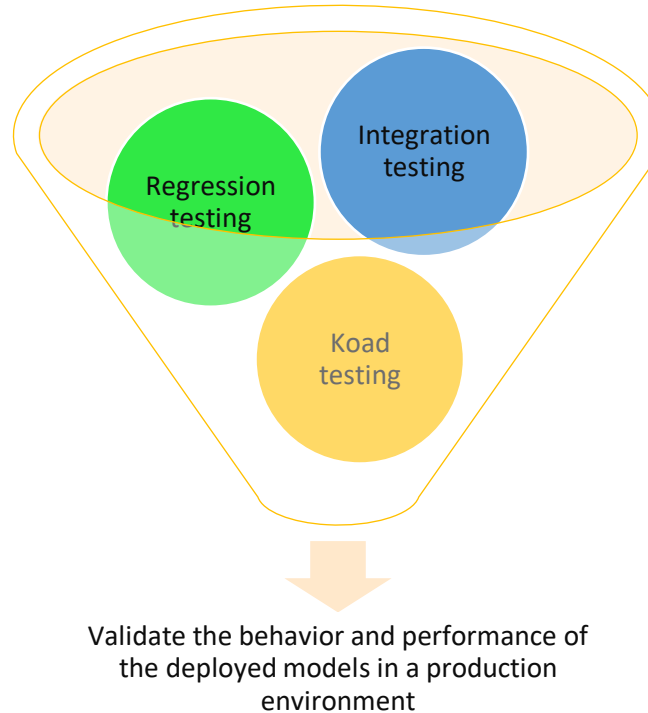
Testing and Validation

Conduct thorough testing and validation of the deployed models

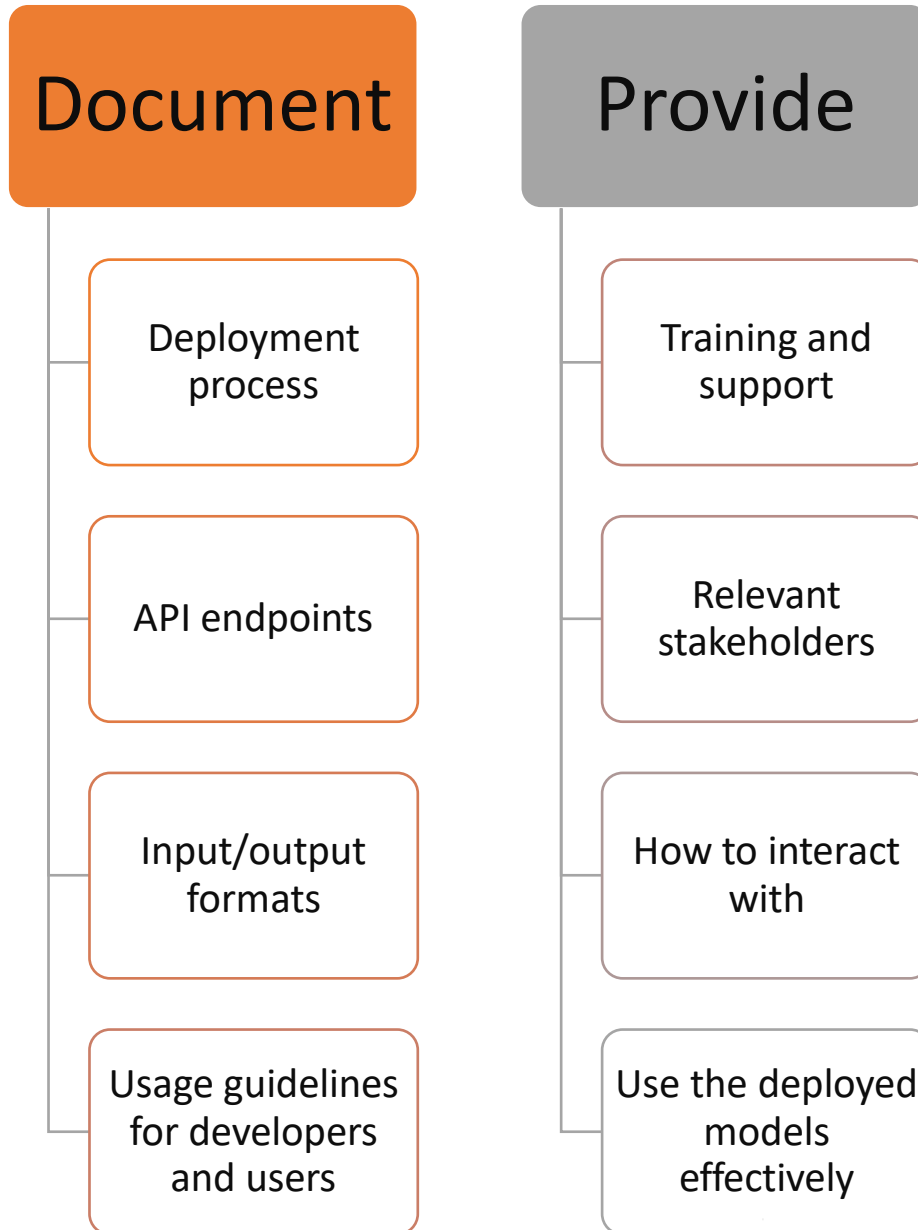
Correctness

Performance

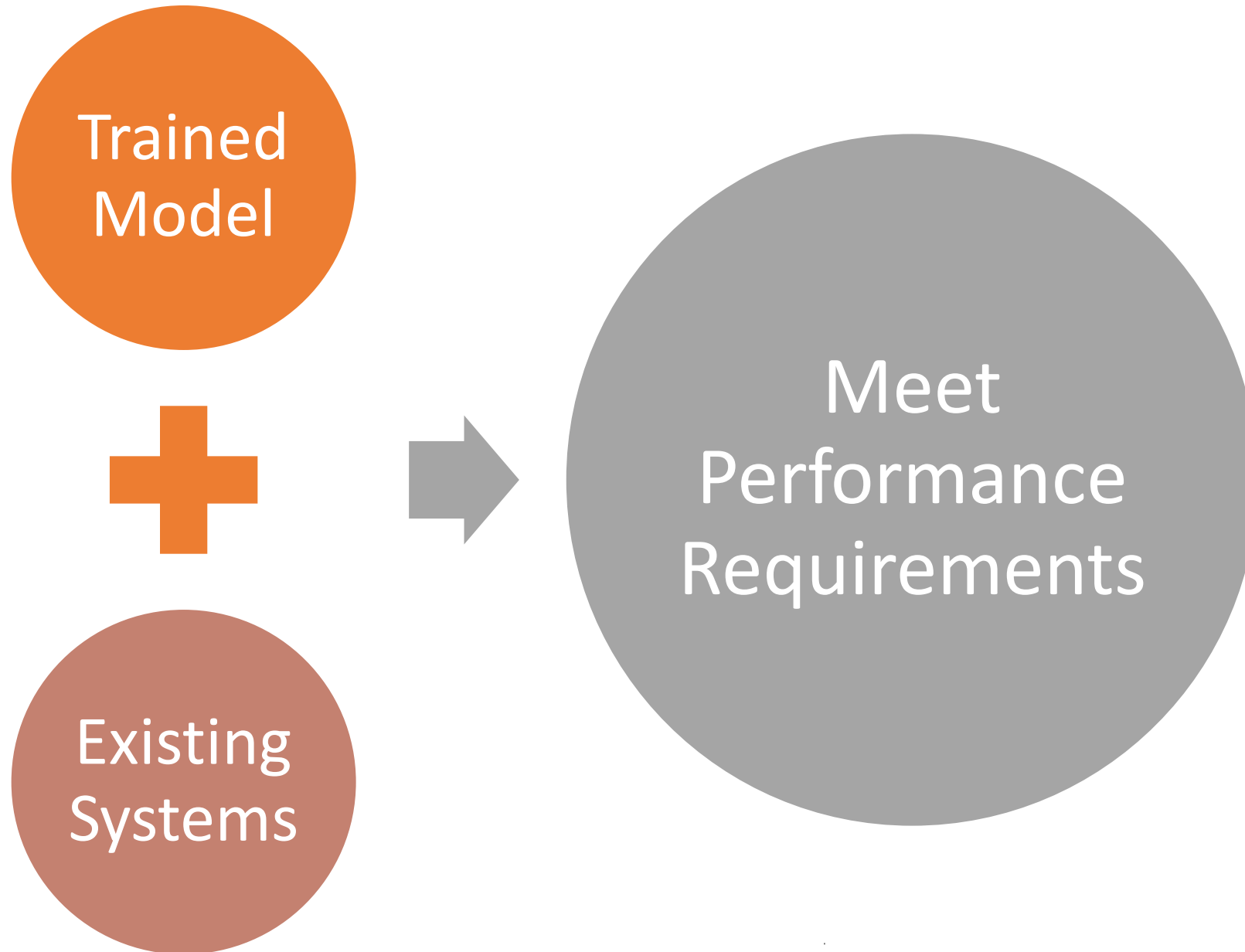
Reliability
under various
conditions



Documentation and Training

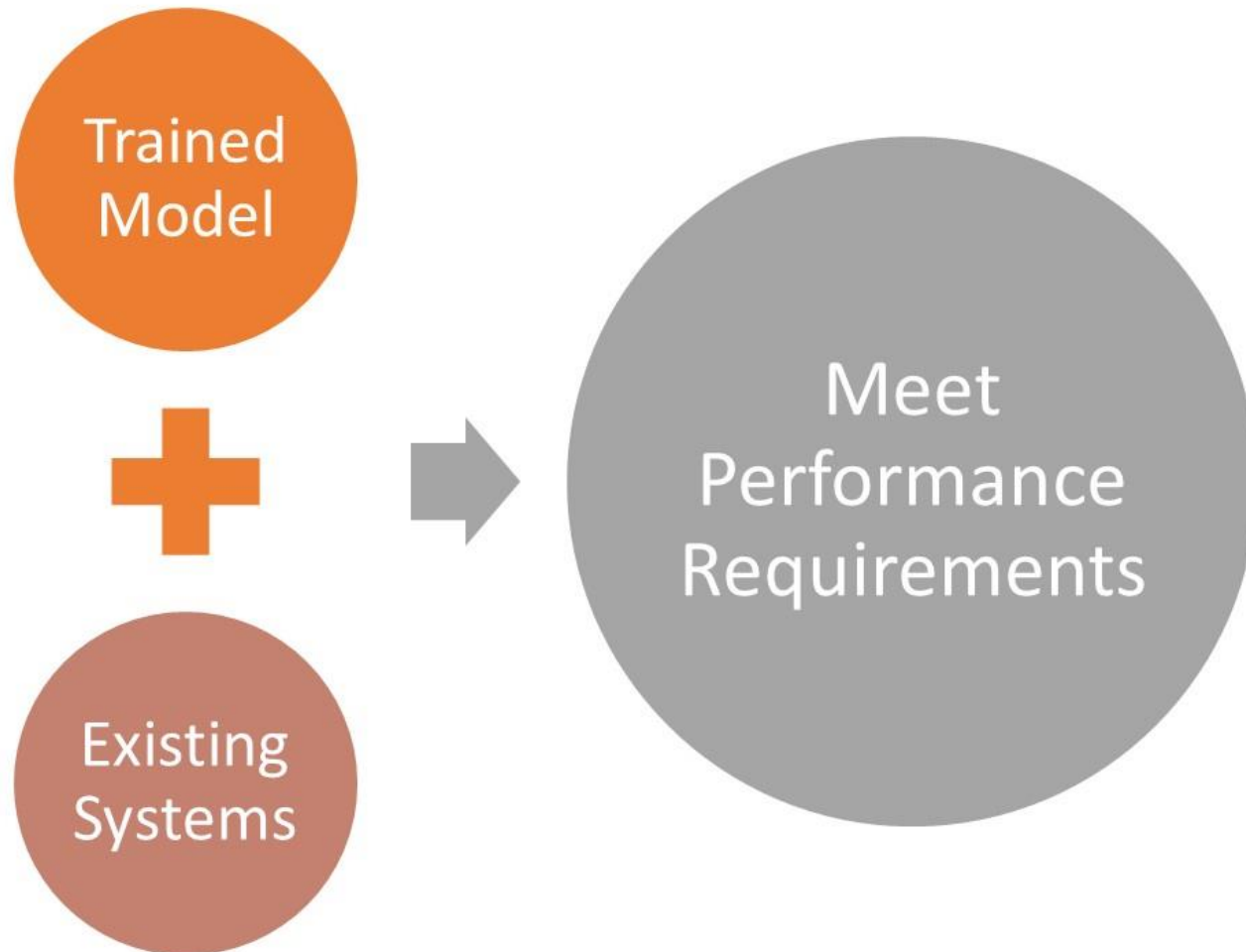


How to deploy trained models into production environments



What is next?

Example of How to deploy trained models into production environments



Master in Artificial Intelligence

*Thank
you*



Deployment II

